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				6. Performing Organization Code	
7. Author(s) M. L. Jensen, M. Smith and R. J. Rogers				8. Performing Organization Report No.	
9. Performing Organization Name and Address Department of Geol. and Geophys. Science University of Utah Salt Lake City, Utah 84112				10. Work Unit No.	
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16. Abstract Major structural trends of Utah and Nevada have been mapped on the 1:1,000,000 scale. The trends are being compared to mapped faults and structures; blocks with offset patterns, unrelated to present geomorphology, suggest crustal fragments that have moved along now dormant fault systems. Those fracture trends in bedrock and Qal that exhibit mineralization are being assayed for mercury with the hope of discovering "blind" mineralized zones that are not exposed on the surface. False color transparencies are being employed in the investigation of the Colorado Plateau. Color, by enhancing variations in vegetation type and density, facilitates the identification of drainage patterns, seepage, lineaments, lithographic units and plateaus and buttes. Areas are being investigated further by field studies and geochemical methods.					
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Figure 2. Technical Report Standard Title Page

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(E73-10701) FRACTURE TRENDS IDENTIFIED  
BY ERTS-1 IMAGERY IN UTAH AND NEVADA  
(Utah Univ.) 123 p HC \$8.25 CSCI 08E

MINERAL EXPLORATION AND FRACTURE TRENDS  
IN UTAH AND NEVADA, BY ERTS-1 IMAGERY

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University of Utah, Salt Lake City, Utah 84112

Objectives of the Contract

The major endeavor of this ERTS-1 Contract is the application of the imagery to mineral exploration. This is being done by locating fracture trends on the imagery that are associated with mineralization. Those trends that extend into alluvial or post-ore cover are tested along the extrapolated trend with a soil-gas collector that measures the amount of mercury contained within the soil-gas. Mercury at the surface appears to be an indicator of mineralization at depth.

2.1 Work Performed

Structural trends as they appear on the ERTS-1 Image have been traced on a transparent overlay sheet (1:1,000,000 scale) of the Utah-Nevada area. An arbitrary length of about one centimeter (ten kilometers on the ground) has been chosen as a minimum length of trends. Their selection has been based on:

1. Obvious displacement of structures.
2. Continuity or persistence of trend across structures.
3. Linear bearings (excluding man-made features).
4. Line-up of outcrop patterns, drainage, erosional features and vegetation.

2.1.2 Significant Results

Structures clearly traceable through bed rock are considered most reliable. Continuity, however, is frequently traceable through ranges and across adjoining sedimentary basins where changes in drainage, erosion pattern, soil color or vegetation suggest that the basin sediments are extremely sensitive to underlying structures. Many large and continuous trends, too smeared by erosion to be visible on the ground or from aircraft photos, become quite evident at the scale of the

2.

ERTS-1 images. One of these "lineations" is the Towanta Lineament" across the Uinta Mountains (Howard Ritzma, personal communication, 1973).

Photos taken on different traverses vary considerably in contrast due to sun elevation and smog-haze distribution, and in the lineations which show up due to sun azimuth. The best structural trend analysis, therefore depends on a comparison of repetitive photos of each area.

The study was made with little regard for surface geology. Nevertheless, there appears to be little correlation between the more persistent trends and present topography and rock type. Some trend directions appear to cross all geologic boundaries; others stop or change direction as they cross a boundary or strong cross-trend; still others change orientation gradually, forming an arcuate track across hundreds of miles as if a once-straight trend had been off-set by numerous younger faults. In the region west of the Wasatch line, the patterns become more contorted, suggesting strike-slip movement in several directions or possible rotational movement within the Great Basin.

The trends have been retraced to separate and uni-directional sets. These are now being related to surface geology, geophysical studies, volcanic and intrusive centers and areas of mineralization.

#### 2.1.3 Efforts to Achieve Reliability

The reliability of inferences drawn from ERTS-1 imagery can only be established by field work and close comparison with various forms of ground truth. Images with snow cover exhibit extraordinary features such as highways and even city streets where snow has been removed.

#### 2.1.4 Publications

No publication of data or results took place during the past period.

#### 2.1.5 Conformance to Work Schedule

The work is about on schedule with the Hg soil-gas program now under way during the summer months.

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#### 2.1.6 Work Progress

The progress of work is deemed satisfactory during the past period. It is hoped that the Hg soil-gas program will increase significantly during the next three months.

#### 2.2 Work Planned for Next Reporting Period

One of the more promising exploration techniques that is now being developed for application to the ERTS-1 Contract is the collection of soil-gas that almost invariably contains mercury. Simple techniques have been experimented with that enable the collection and analysis of the mercury contained in the soil-gas.

An enclosed tripod or plastic hemisphere is placed on the ground at the specific collection site with the base buried several decimeters in the ground. A battery-powered fan draws the soil-gas from the ground. It passes through a small orifice in the enclosed collecting instrument and through one or more layers of the silver screen. The mercury in the soil-gas forms an amalgam with the silver. The amount of mercury collected is determined by an atomic absorption instrument where the mercury is vaporized by heating the silver screen in a small furnace.

With only a few minutes of operation of the fan, adequate samples of mercury are obtained for analyses. The basic factors that indicate the usefulness of this exploration technique are as follows:

1. Mercury is associated as a trace element with the majority of mineral deposits.
2. The high vapor pressure of mercury allows it to continually "bleed" from a mineralized zone, even from considerable depths, where it can be trapped at the surface with the mercury soil-gas collecting apparatus.
3. Mercury can be detected with atomic absorption instruments in concentrations of less than 0.1 ppb. The average abundance of mercury in many rocks is roughly 50-100 ppb and more in mineralized zones.

4.

The use of this technique for tracing mineralized zones into pediment areas provides an exploration technique for prospecting for "blind" mineral deposits in limited zones indicated by the mineralized fracture trends detected in ERTS-1 imagery.

Important structural trends which appear to be related to mineralized areas have been located as precisely as possible on the ground. Geochemical surveys will be made at right angles across some of these trends, testing for mercury (Hg) in soil-gas, to check the possibility that the trend represents a deep fracture through the crust, providing a possible escapeway, now or in the geologic past for comparatively volatile elements. If the initial traverse shows positive, further traverses will be made across the extrapolated structural trends into post-ore alluvial covered areas to test the potential of covered mineralized zones. The first such trends to be studied are the trends extending from the Uinta Mountains to Park City, Little Cottonwood Canyon and perhaps extending across Salt Lake Valley into the Oquirrh, Stansbury and Cedar Ranges.

#### 2.2.2 Recommendations for Changes in Operations

No basic changes in operation are contemplated at the present time.

#### 3.1 Problems

One problem at present is that we receive imagery from every other pass. It is apparent that we are operating, therefore, at 50% effectiveness. Fortunately, we have requested all imagery of less than 50% cloud cover, which we do not have and fully expect that the additional imagery will permit more significant results.

#### 3.2 Adequacy of Funds

The project funding is adequate.

#### 3.3 Changes in Standing Order Forms

A request has been made to provide imagery of every pass and standing orders have been made for all imagery not received.

5.

#### 3.4 Changes in Personnel

Ms. Martha Smith has been employed as a Graduate Assistant to study structural trends and their relationship to Basin and Range structure.

Mr. Robert J. Rogers has been employed as a Graduate Assistant who will specialize in the application of both black and white and color imagery to the Colorado Plateau.

#### 3.5 Data Request Forms

Abundant B & W requests have been made.

#### 3.6 Image Descriptors

Standard Image Descriptor forms are supplied herewith for all imagery received since the last Type I Progress Report.

**(See Instructions on Back)**

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**\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).**

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1233 - 17544 - M				Clouds 90%

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DATE 2-13-73

PRINCIPAL INVESTIGATOR M. L. Jensen

GSFC UN 113

ORGANIZATION University of Utah

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1193-17321-M				Lake Powell Snow (Excellent accentuation of structure) Roads Comb Wash Waterpocket Fold Mountains Henry Navajo

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1013-17303-M				Uintah Mountains Uintah Basin Braided stream of Green River Cloud cover over Uintahs Flaming Gorge Reservoir Hogbacks (north)

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1013-17305-M				San Rafael Swell (dome) Book Cliffs Green River (braided) Plateau dissection Relief good Roan Plateau

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1051 - 17425 - M				0 Cloud Cover Cedar City Excellent relief Joint structures (37° 15') (113° 00') Colorado Plateau Hurricane Fault Cinder Cone (volcanoes) (37° 10') (113° 15') Waterpocket Fold

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1018 - 18001 - M				5% Cloud cover Flat relief Sierra Nevada Owens Valley Bishop

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1157 - 17321 - M				0 Cloud cover Lake Powell Colorado Plateau Henry Mountains Dark print Snow on peaks Comb Ridge Monocline Abajo Mountains Colorado River

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1163 - 18060 - M				0 Cloud cover Snow on some peaks dark print relief fair Walker Lake Several volcanic edifices (118° 55') (38° 15')

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1199 - 18062 - M				80% Cloud cover Walker Lake

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1124 - 17490 - M				5% Cloud cover Excellent relief Snow on peaks Schell Creek Excellent structured details. McGill Smelter Ruth porphyry Copper Pits.

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1053 - 17531 - M				0 cloud Cover NE Nevada Flat relief Significant linaments in low relief areas Tr basalt areas East Humbolt Range with Cirque Lakes

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1052 - 17472 - m				0 cloud cover Great Salt Lake and Railway causeway Salt Flats Relief Good

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1157 - 17305 - M				15% cloud cover Some snow Contrails Flaming Gorge Reservoir Varied structural features east of Dam. Green River Wasatch Formation Plateau Edges (cliffs)

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1157 - 17312 - M				<p>0 Cloud Cover</p> <p>Uintah Basin (Complete)</p> <p>Structured folds on SE flank of Uintah Mtn.</p> <p>N 80° structural line- ment in SW portion of image.</p>

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1032 - 17370 - M				No Snow Lake Powell

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1052 - 17481 - M				0 cloud cover relief good Ely Ruth Smelters Copper pits aligned N45° Not E-W. Excellent trends in Confusion Range.

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1124 - 17484 - M				5% Cloud cover Salt Flats Evaporation tanks Western Utah Fish Springs Range House Range Snow on Peaks Cedar Mountain Gold Hill Deep Creek Range

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1052 - 17484 - M				No Cloud cover Cedar City Hurricane fault Escalante Desert Ruth porphyry Copper Pits Pioche Delamar River Sheeprock Range

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1162 - 17593 - M				0 cloud cover Columbian Plateau note N-S breaks in TH Good relief Snow

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1162 - 18004 - M				0 cloud cover Bishop Sierra Nevada Snow on peaks Owen's Valley Park Range

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1018 - 17594 - M				5% Cloud cover Flat relief Playas

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1162 - 18002 - M				0 Cloud cover High Relief Snow on Mountains Volcanic Peak N38° 40' W117° 25' Tonopah Austin US 50 Highway

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1018 - 17592 - M				0 Cloud cover Flat Relief Antler Peak Range Ruby Mountains I-80 Highway

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1162 - 17595 - M				0 Cloud cover Cord relief Snow on Mountains Major trends (N-S) Antler Peak Range I-80 Highway Cedar Mountain district Ruby Mountains Copper Canyon and Copper Basin

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1018 - 17585 - M				25% Cloud cover Flat relief Erosional fractures Small reservoirs

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1161 - 17550 - M				25% Cloud cover Park (low sun angle) Timber Mountain Calderas

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1051 - 17420 - M				0 Cloud cover Bacterial spiral in Utah Lake Salt Lake City Provo Wasatch Range Fumaroles Butte

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1194 - 17371 - M				Uintah Basin Uintah Mountains Wasatch Mountains Utah Lake Highways (clear, lack snow) Cities (very clear as they lack snow) Faults Lakes (frozen, snow covered)

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1163 - 18063 - M				Sierra Nevada Mtns. White Mountains Snow Bishop Owens Valley Sheer structures cutting volcanics O Cloud

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1157-17314-M				No cloud cover San Rafael Swell Low sun angle = 22° Relief good Book Cliffs Roan Plateau Colorado and Green Rivers (well delineated)

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1031 - 17311 - M				Plateau dissection and relief good. Green River Colorado River San Rafael Swell Book Cliffs Roan Plateau Excellent fracture patterns (parallel) (East side)

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1160 - 17485 - M				0 Cloud Cover Good relief Excellent trends or lineage (Confusion Range). Sevier Lake House Range intrusive (Crescent west front)

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1052 - 17475 - M				0 Cloud cover relief flat Bonneville Salt Flats Solar evaporation ponds I-80 highway Fish Springs Deep Creek Range

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1160 - 17483 - M				0 cloud cover Great Salt Lake Resort Wendover Solar evaporation ponds Fish Springs & fracture Shoreline of Lake Bonneville excellent trends

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1114 - 17481-M				Cloud cover @ 50% Great Salt Lake Salt Lake Resort Solar evaporation ponds

**\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).**

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1033 - 17421 - M				@ 50% Cloud cover Relief poor and flat Great Salt Lake and Utah Lake

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1015 - 17415 - M				Great Salt Lake Utah Lake Wasatch Range Solar evaporation ponds Salt Lake City (good) Excellent detail 0 Cloud cover

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1033 - 17414 - M				15% Cloud cover Great Salt Lake Band 5 shows railway causeway Bear Lake Freasatet Range Excellent structures Solar evaporation ponds Tailings (Kennecott Copper) Excellent detail of residential and farm areas North of SLC. Roads well displayed on Band 7.

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1195 - 17423 - M				@60% Cloud cover Relief accentuated by snow Roads well displayed by snow removal Excellent structures Anticline at N 42° 25' W 110° 30'. Wyoming.

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1050 - 17371 - M				1% Cloud cover Lake Powell and Glen Canyon Dam Waterpocket Fold Rivers: Paria Sevier, Colorado Relief - flat <u>Bryce Canyon</u> (fault control)

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1014 - 17370 - M				Cloud 0 -- <1% Glen Canyon Dam Lake Powell Plateaus Buttes Mesas Waterpocket Fold Oxbow Lake

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1159-17431-M				Clouds Sedimentary Basins Alluvial Fans Farm Lands

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1164-18114-M				95% cloud

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1164-18105 -M				75% cloud basin-range structure deserts volcanic terrain

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1164-18112-M				Walker Lake Basin-Range Structures Desert Fault (normal, strilce slip) Farm areas (irrigated)

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1197 - 17542 - M				0 cloud cover Ruby Mountains & East Humbolt I-80 Highway Excellent Relief Snow on ranges Graben (SE portion of image) Schell Creek Range

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1193-17312-M				Mtns, Uintah Basin, Uintah River, Green & Colorado Major lineaments through Uintah Precambrian quartzite Dendritic drainage Hogbacks around Uintah Mtns formed by Paleo- zoic and Mesozoic fms.

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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DATE March 13, 1973

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1194-17364 M				Contrails (still air) Bear Lake Fault on East side Wasatch Mountains Snow cover Mountain <u>Folded</u> formations Hogback Monoclinial Valley Parallel Drainage Basin (Green River)

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1193-17315 M				San Rafael Swell Snow Cover Snow accentuates topo- graphic difference Long lineage from Price area to SE. Bearing N 60° W *Not to earthquake center in Price area. Quakes are result of coal mining and are not tectonic.

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1197-17551-M				AEC Nevada Test Site Mountain timber Calderas (several) Thrust faults Major linament trends- numerous Snow partial

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1015 - 17424 - M				0 Cloud cover Cedar City Flat relief Plateau Volcanic flour Snow accentuates excellent joint patterns (38° 20') (113° 00) trends N-S.

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1194-17373-M				Dome (San Rafael Swell) Drainage Dendritic Meanders  Lake, Utah  Plateaus Buttes Mountains Henry Highways Accentuated without snow cover

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
E 1192 17254 M				Clouds 20% Snow Drainage Dendritic Along fracture zones Formations, accentuated by vegetation Folds Cliffs, headwind erosion Resistant formations from Plateaus and Buttes

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1192-17260-M				Cloud cover 40% Ground fog Plateaus Headwind erosion

**\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).**

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1159-17424-M				90% cloud Salt Lake Basin-Range Mountains

**\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).**

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1159-17422-M				>75% cloud Utah Lake Wasatch Front Basin-range structures

**\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).**

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1197-1754C-M				60% cloud cover Bonneville Salt Flats Mountains Playas

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1197-17545-M				Playas Mountains Contrails Snow Fog Croplands Pediment areas on SW corner Excellent pediments Open pit copper mine at Ruth McGill Smelter & Tailings pond <u>Good for field check</u>

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1197-17542-M				Roads (I-80 from Wells to Carlin) Mountains (Ruby Mtns.) Lakes (frozen) Cirques (Ruby Mtns.) Snow Fields (accentuated by snow)

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1198-18010-M				Fog (ground) Clouds (more than 80% with fog) Sierra Range front marked by differing cloud coverage.

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1233 - 17544 - M				Clouds 90%

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1015 - 17413 - M				0 cloud cover Relief Good Bear Lake fault and structures east of lake E-W faults across N-S structures in Wyoming.

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1192-17263-M				Clouds 10% Drainage, Erosion Plateau lineaments Grand Hogback (excellent feature)

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1124 - 17493 - M				Low sun angle Alluvial Fans Alluvial Terrace Basin & Range Structural Lineaments Snow Pastures 5% Clouds

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1266 - 17373 - M				Clouds 5-10% Snow Provo Salt Lake City Croplands Uintah Basin Uintah Mts. Wasatch Mts.

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1230 - 17373 - M				Clouds 40% Basin (Uintah) Lake (Utah) Uintah Mts. Snow Valleys

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1267 - 17440-M				Clouds <5% Snow Alluvial fans Alluvial flats Croplands Residential areas Basin & Range Lineaments Cliffs Zion Nat'l. Park

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1235 - 18070 - M				Snow Croplands City Alluvial fans Reservoirs Roads Valleys Sierra-Nevada Mts. Sequoia and Kings Canyon Lands Nat'l Park

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1230 - 17382 - M				Snow Lake Powell Meanders Dendrite Drainage Lineaments Straight Cliffs Waterpocket Fold The Cockscomb Plateau Bryce Nat'l Park Henry Mts. Valleys

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1267 - 17434 - M				Clouds 1% Snow Croplands Residential area Flood plain Alluvial Fans Bajada Lava Flows Fumarole Butte Sevier Lake Lineaments Sand Dunes Basin and Range Playa

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1266 - 17382 - M				Clouds <10% Snow Lake Powell Zion Nat'l Park Bryce Nat'l Park The Cockcomb Straight Cliffs Waterpocket Fold Lineaments Escalante River Virgin River Cliffs Plateau

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1266 - 17370 - M				Clouds <10% Snow Bear Lake Lineaments Basin Folding

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
<p>1200 - 18120 - M</p>				<p>Cloud 75%</p> <p>Snow</p> <p>Lake Tahoe</p> <p>Sierra-Nevada Mts.</p>

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1200 - 18114 - M				Cloud 95% Lake

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1234 - 18003 - M				Cloud 80% Snow Lake Basin and Range

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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QSFC 37-2 (7/72)

# ERTS IMAGE DESCRIPTOR FORM

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1265 - 17314 - M				Clouds 70% Snow Flaming Gorge Reservoir Uintah Basin

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1267 - 17431 - M				Clouds <5% Snow Cities Croplands Great Salt Lake Great Salt Lake Desert Utah Lake Salt Flats Fish Springs Basin and Range Wasatch Mts. Alluvial Flats Alluvial Fans Highway Intrusive lineaments

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1267 - 17425 - M				Clouds 50% Snow Great Salt Lake Croplands Salt Flats City Wasatch Mts. Alluvial Flats Strataforms

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1234 - 18012 - M				Clouds 10% Snow Basin and Range Sierra- Nevada Mts. Alluvial Fans Alluvial Terraces Playa Lakes Extrusive Rocks

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1234 - 18005 - M				Clouds 60% Snow Alluvium Basin and Range

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1269 - 17551 - M				Clouds 50% Snow Alluvial Fans Basin and Range Bajada Lava Flow

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1269 - 17553 - M				Clouds 10% Snow Alluvial Fans Flood Plain Basin and Range Bajada Lava Flows Playas

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1269 - 17542 - M				Clouds 50% Snow Croplands Residential Area

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1268 - 17495 - M				Clouds 15% Snow Basin & Range Alluvial Fans Alluvial Flats Lineaments Playa Lakes Croplands

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1268 - 17490 - M				Clouds 50% Alluvial Flats Salt Lake Desert Bonneville Salt Flats Basin & Range Highway

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1268 - 17492 - M				Clouds 40% Snow Basin & Range Alluvial Flats

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1268 - 17483 - M				Clouds 80% Great Salt Lake Salt Flats Great Salt Lake Desert

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1266 - 17375 - M				Clouds 15% Snow Croplands Lake Wasatch Plateau Castle Valley

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1233 - 17551 - M				Clouds 85% Snow

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1233 - 17553 - M				Clouds 85%

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1235 - 18055 - M				Snow Croplands Basin & Range Alluvial Fans Lineations Desert Valley

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1235 - 18061 - M				Snow Basin & Range Croplands Alluvial fans Alluvial flats Lakes

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1235 - 18064 - M				Snow Walker Lake Basin & Range Alluvial fans Lakes Reservoir Croplands

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1231 - 17431 - M				Clouds 95%

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1200 - 18001 - M				Clouds 95%

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1230 - 17375 - M				Clouds 5% Snow San Rafael Swell Waterpocket Fold Henry Mts. Capitol Reef Nat'l Monmt. Croplands Roads Dunes Reservoirs Lineaments Meanders Buttes

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1229 - 17312 - M				Clouds Snow Drainage Roads

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1229 - 17321 - M				Clouds 50% San Rafael Swell Buttes Mesas Snow Dunes

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1229 - 17314 - M				Clouds 25% Snow Fog Uintah Basin Uintah Mtns. Valleys Roads Alluvial Flats

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1236 - 18122 - M				Snow Clouds 20% Consequent Lakes Lake Tahoe Croplands Valleys Mountains Lineaments

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1229 - 17323 - M				Clouds 70% Snow Waterpocket Fold

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS
1232 - 17483 - M				Snow Clouds Great Salt Lake Promontory Point Wasatch Front Salt Flats Croplands

\*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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